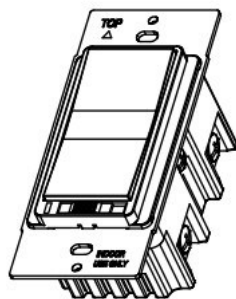


INSTALLATION INSTRUCTIONS

ZW15S
Wireless Home Automation Control Device
On/Off Switch



◆ SPECIFICATIONS

Voltage..... 120VAC, 60Hz
Incandescent.....1000W
Ballast.....1200VA
Resistive.....1800W(15A)
Motor..... 1/2 HP
Z-Wave Frequency..... 908.42 MHz
Operating Temperature..... 32-104° F
Range.....Up to 100 feet line of sight
between the Wireless Controller and the closest Z-Wave receiver module.

◆ FEATURES

- Perfect Replacement for regular wall switch, 120VAC, 15Amp
- Wireless Z-Wave technology creates a mesh network for command and control interoperability with other Z-Wave compliant controller and devices
- Manual and Remote ON/OFF control of any connected lighting and other electrical load
- Can be used for signal pole or 3- Way (Multi-location) with ZW3K Auxiliary Switch (sold separately)
- Air-Gap Switch feature meets UL requirement and disconnect power from load locally
- A blue LED illuminates when the load is off

◆ DESCRIPTION

The ZW15S ON/OFF Switch is a perfect wireless manual and remote on/off control replacement of regular wall switch, controlling incandescent, LED, fluorescent, ballast and so on. This ZW15S ON/OFF switch is fully compatible with other Z-Wave devices, provides programmable function in custom settings such as scenes, association, schedule event, etc. Also It can be added to most Z-Wave compliant controllers. As part of any Z-Wave network, each device will be manually and/or remotely controlled by commands sent from Z-Wave controllers in real time, but also act as wireless repeater transmitting RF signal from one to another intended device, then extending the range of RF signal all over the system. Sliding Air-Gap switch to a totally disconnect power while replacing light bulbs and preventing from leakage current from the fixture(s).

WARNINGS AND CAUTIONS

To be installed and/or used in accordance with appropriate electrical codes and regulations. Exercise extreme caution when using Z-Wave devices to control appliances. Operation of the Z-Wave device may be in a different

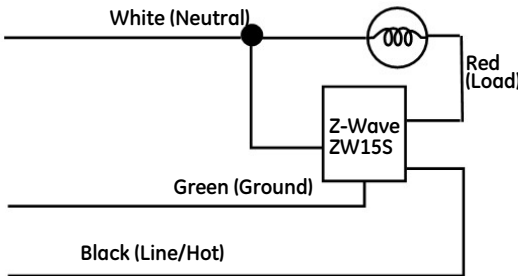
room than the controlled appliance, also an unintentional activation may occur if the wrong button on the remote is pressed. Z-Wave devices may automatically be powered on due to timed event programming. Depending upon the appliance, these unattended or unintentional operation could possibly result in a hazardous condition.

Z-Wave enabled devices should never be used to supply power to, or control the On/Off status of medical and/or life support equipment.

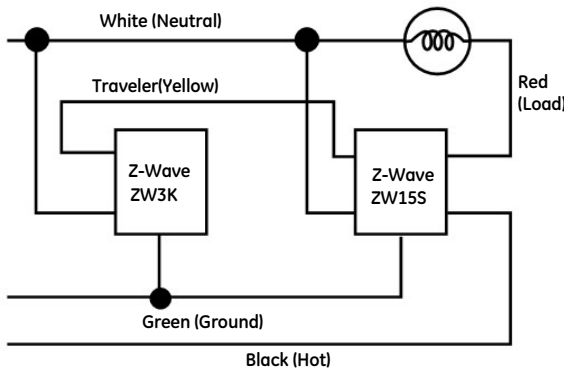
If you are unsure or uncomfortable about performing the installation, please consult a qualified electrician.

◆ INSTALLATION

Single Switch Wiring Schematic

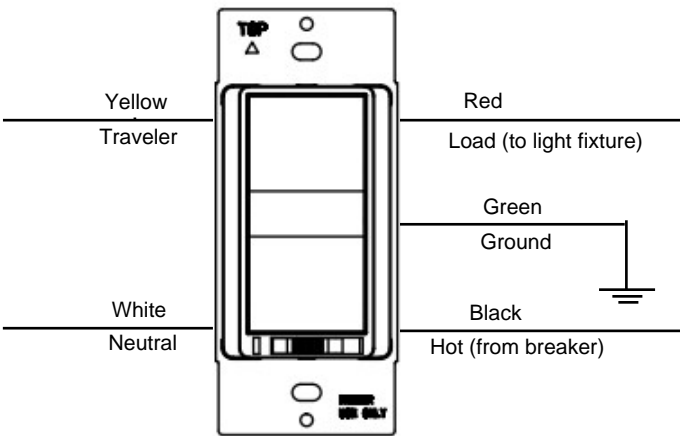


3-Way Wiring Schematic using one ZW15S and one ZW3K



Traveler works with ZW3K for 3-way control, ZW3K sold separated.

Wiring Diagram:

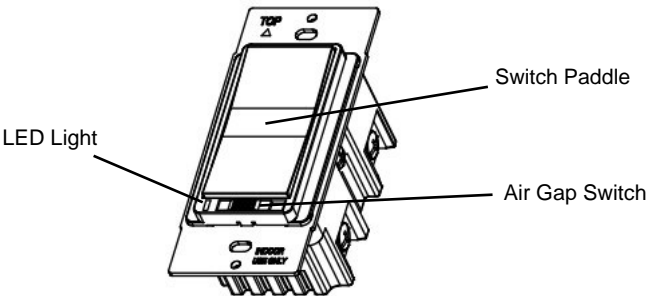


- 1.WARNING : To avoid fire, shock, or death. Turn off power at circuit breaker or fuse and test that power is off before wiring.
2. Remove wall plate and existing switch mounting screws.
3. Carefully remove the existing switch from the switch box.
4. Disconnect the wiring from the existing switch.
5. Connect the Z-Wave switch as shown in the wiring diagram: Black lead to hot wire, white lead to neutral wire, red lead to load wire, green lead to ground wire.
6. Check connections to be sure they are tight and no bare conductors are exposed.
7. Insert the ZW15S switch into the outlet box carefully.
8. Make sure the ZW15S switch to the box using the supplied screws.
9. Attach the wall plate.
10. Restore power at the circuit breaker and test the system.

Air Gap Switch

The ZW15S has an air gap switch on the lower right side (see diagram for location) to completely disconnect power to the load. Slide the air gap switch to left to disconnect the power while replacing light bulbs and slide it to right for normal operation. The air gap switch must be all the way in for the switch to function and control the lighting.

◆ OPERATIONS



Basic Operation

The connected light can be turned ON in two ways:

1. With a remote.
2. Manually with the paddle on the Z-Wave switch.

Remote Control

Z-Wave remotes provide control of an Individual device, Groups of devices and Scenes. Other brands of Z-Wave Certified remotes may not offer as much flexibility in how you can set up your lighting control network. Please refer to your remote control's instructions for details on its capabilities and instructions for adding and controlling devices.

Manual Control

The switch paddle on the ZW15S allows the user to:

Turn ON/OFF the connected lighting.

- To turn the connected lighting ON: Tap the top of the switch paddle.
- To turn the connected lighting OFF: Tap the bottom of the switch paddle. Once switch paddle (top/button) is pressed, the device will enter into learn mode to accomplish inclusion or exclusion by controller.
- Refer to the instructions for your primary controller to access the network setup function and include or exclude devices.
- When prompted by your primary controller, tap the top or bottom of the paddle.

INSTALLATION INSTRUCTIONS

- The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
- Once the switch is part of the network, the same basic procedure is used to add the switch to groups & scenes or change advanced functions. Refer to the primary controller's instructions for details.

Please Note: After a power failure, the ZW15S on/off switch returns to OFF state.

ADVANCED OPERATION

The following Advanced Operation parameters require that you have an advanced controller. However, basic remotes do not have this capability.

All-ON and All-OFF

Depending upon your primary controller, the ZW15S switch can be set to respond to ALL-ON and ALL-OFF commands in up to four different ways.Some controllers may not be able to change the response from its default setting. Please refer to your controller's instructions for information on whether or not it supports the configuration function and if so, how to change this setting.

The four possible responses are:

- It will respond to ALL-ON and the ALL-OFF command (default).
- It will not respond to ALL-ON or ALL-OFF commands.
- It will respond to the ALL-OFF command but will not respond to the ALL-ON command.
- It will respond to the ALL-ON command but will not respond to the ALL-OFF command.

LED Light and Buttons Configuration

By default setting, once press button "up", the load connected to ZW15S will be turned on,and LED light will turn off. We use Command_Class_Configuration to configure LED light state and button reverse.

For instance, after configuring, once press button "up", the load connected to ZW15S can be turned off and LED light will turn off.

- Configuration details
- Parameter 1 (configure LED light state), default value is 0. Valid values are 0 and 1 with 1 byte.
 - Parameter 2 (configure button toggle), default value is 0. Valid values are 0 and 1 with 1 byte.

◆ WIRELESS RANGE

This device complies with the Z-Wave standard of open-air, line of sight transmission distances of 100 feet. Actual performance in a home depends on the numbers of walls between the remote controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network. Most Z-Wave enabled devices act as signal repeater and multiple devices result in more possible transmission routes which helps eliminate " RF dead-spots."

Things to consider regarding RF range:

- Each wall or obstacle (i.e.:refrigerator, big screen TV, etc.)between the remote or Z-Wave device and the destination device will reduce the maximum range of 100 feet by approximately 25-30%.

- Brick, tile or concrete walls block more of the RF signal than walls made of wooden studs and plasterboard (drywall).
- Wall mounted Z-Wave devices installed in metal junction boxes may suffer a significant loss of range (approximately 20%) since the metal box blocks a large part of the RF signal.

Effects of Home Construction on Wireless Range Between Z-Wave Enabled Devices.

Note: The distances shown in the table below are typical examples. Actual performance in your home will vary.

From the Remote (or repeating Z-Wave module) to destination device:					
Type of Construction	Wood Frame with Drywall		Brick, Tile or Concrete		
		Plastic J-Boxes*	Metal J-Boxes	Plastic J-Boxes*	Metal J-Boxes
Number of Walls or Obstacles	0**	100’	80’	100’	80’
	1	70’	56’	60’	48’
	2	49’	39’	36’	29’
	3	34’	27’	21’	17’

Restoring Factory Defaults

All Configuration Parameters can all be restored to their factory default settings by using your primary controller to delete/reset the device.

◆ FCC COMPLIANCE STATEMENT

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses,generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on,the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

◆ WARRANTY INFORMATION

Our company warranties its products to be free of defects in materials and workman-ship for a period of two (2) years. There are no obligations or liabilities on the part of our company for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

Mar, 2014
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